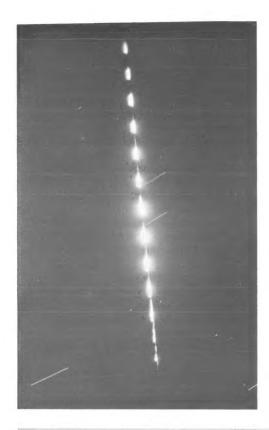
# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

11 JANUARY 1979



# METEORITE RESEARCH IN GEOLOGY

A meteorite can be considered as a free spacecraft, providing a natural record of cosmic rays, solar activity, and other conditions of the environment from which it came. Thus, when J. Steiner of the Department of Geology says that the Department's meteorite collection and its policy of recovery and study of meteorites constitutes an inexpensive space program, he is being only partly humorous.

Until the American space program brought back the now famous "moon rocks," meteorites were the only material available to scientists that had not been extensively worked upon by the earth's environment. As such, meteorites still provide valuable data on questions that range from original planet formation to the composition of the earth's core.

As of this academic year, Dr. Steiner is curator of the meteorite collection and a member of the National Research Council's Associate Committee on Meteorites. He took over this position after the retirement of Dr. Folinsbee in the fall of 1978. According to Dr. Steiner, it was Dr. Folinsbee who was largely responsible for the existence of the meteorite collection (one of the best

collections in a Canadian university) and this University's active participation in the recovery and study of meteorites. Dr. Follinsbee was a founding member of the Associate Committee on Meteorites, and as Professor Emeritus in the Department of Geology, his experience in the area remains available to his colleagues.

# Bruderheim Fall

Meteorite research at this University and in Canada as a whole received its initial empetus from the fall of the Bruderheim meteorite near Edmonton in 1960 (meteorites are named after the town nearest the fall). Fragments of the rock totalling over three hundred kilograms in weight were collected, making the Bruderheim fall the largest in Canada.

The Bruderheim Fall had a number of effects. Scientists were able to bolster Canadian research collections by exchanging fragments with other collections around the world. Furthermore, the experience gained in recovery techniques was a great use in collecting fragments of the three major falls that occured within five hundred kilometers of Edmonton over the next seven years.

Perhaps the most important effect of the Bruderheim fall, however, was the recognition that in other parts of Canada, where there was no active interest in meteorites such as there was at this University, the Bruderheim meteorite might have simply been reported in the press and then left unnoticed. This realization led to the creation of the Associate Committee on Meteorites, which in turn led to the establishment of MORP (Meteorite Observation and Recovery Project).



The Innisfree meteorite was only the third meteorite ever to be collected after being photographed descending. The camera station pictured at the left is one of twelve stations that extend across the prairies. Each station of MORP (Meteorite Observation and Recovery Program) is equipped with 50 mm focus wide-angle cameras, and the whole network partols an area of 800 square kilometers. A rotating shutter in each camera breaks the image four times every second, enabling a determination of velocity. The meteorite pictured on this page was subsequently collected near Innisfree, only 500 metres from the predicted impact point.

VOLUME FIFTEEN, NUMBER TWENTY-SEVEN

The presence of a camera network (MORP) to record meteorite falls is of use to scientists in two basic ways. While eyewitness reports of a fireball are still of great use, a photographic record of the descent of the meteorite allows an accurate measurement of its trajectory, thus enabling scientists to determine its orbit in space. Furthermore, by combining the data on the trajectory of the fireball gained from the photographs with such data as wind speed and running the information through the National Research Council's computer facility in Ottawa, the probable location of impact can be determined.

Being able to pinpoint the impact location quickly and efficiently allows the scientist to recover the meteorite before it has been completely altered by the environment, thereby allowing study of radiation that would not be possible if recovery took too long a time. The work that went into the establishment of the camera network was rewarded in February of 1977 when the Innisfree meteorite was photographed and subsequently collected, only the third time such an event had ever taken place in the world.

#### Meteorites on Ice Fields

At the present time Dr. Steiner and his colleagues are engaged in the study of their most recent meteorite "find" (as opposed to a "fall," a recorded and subsequently collected meteorite, a "find" is the recovery of a meteorite for which there is no information regarding its descent). The Skiff meteorite was found by W.L. Nemeth on his farm and recently purchased by the University.

One of Dr. Steiner's most recent concerns, however, deals not with the Skiff meteorite, or meteorite falls in Alberta generally, but

# **FOLIO**

Inquiries concerning the placement of Notices and Advertisements in *Folio* and all other correspondence with the Editor should be addressed to:

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Telephone number: 432-2325.

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D.W.G. Smith is now examining the Skiff Meteorite with the electron microprobe.

with the possibility of meteorites on the ice fields of northern Canada. According to Dr. Steiner, the recent discovery of nearly one thousand fragments on Antarctic ice fields and the Japanese and American experiences in their recovery strongly suggest that the Arctic, specifically the Ellesmere Island ice fields, could be well worth searching. Concerned that the Americans could well afford to outfit an expedition into the area and thus capitalize on what must be considered an important part of Canada's scientific heritage, Dr. Steiner hopes that at the very least a program be established for scientists in other disciplines, and persons on Ellesmere Island for industrial reasons, to educate them on the basic techniques of meteorite identification and recovery.

# PRINTING SERVICES PROGRAMS

The following information has been received from Printing Services.

# **Duplicating Program**

The concept of the Duplicating Program is to supply a copying service for the campus at the lowest reasonable price consistent with actual production costs. For Printing Services to achieve the lowest production costs, it must narrowly define the type of work accepted under the Duplicating Program. This is necessary to minimize the need to adjust equipment for varying job requirements.

- 1. The definition for Duplicating Program type work is:
- a. 8½ x 11
- b. 20 lb. White Bond
- c. Black ink
- d. Camera -ready copy

Under section (a) of this definition can be included  $8\frac{1}{2}$  x 14 size, in most instances at cost. Where it cannot, is when it is considered to unduly affect the production process.

Under section (b) can be included such stocks as Mayfair Cover 100M, White Bond 32M, Colored papers, etc., as long as they are all 8½ x 11 size, or that it is considered not to unduly affect the production process. Any stock used which costs less than the standard 20 lb. White Bond receives no reduction in price from the Duplicating Program Pricing formula. All stock which costs more than the standard 20 lb. White Bond is to be charged as an additional cost at the listed inventory price.

If there is any variance from (c) and (d) under this definition it would cease to be considered Duplicating Program type work.

- 2. The Duplicating Pricing Formula effective
- 1 January 1979 is as follows:
- a. One Side-25 cents per master plus
- 1.2 cents per impression.
- b. Second Side—25 cents per master plus .7 cents per impression.
- c. It should be noted that for a second-side duplicating under 50 copies, a 25 cent handling charge per master will be added. d. Collating and corner stapling is included in these prices for jobs containing up to 10 sheet (maximum 20 masters) and 1,500 total.
- e. Service and turn-around is based on a 3-hour inplant processing time plus campus mail pick-up and delivery for the basic 10 sheet/1500 copies total.
- f. Collating and stapling beyond the maximums stated will be charged at cost.

# Reprographics Program

As an extension of Printing Services, the coordination of all copying requirements is controlled by a group headed by Dan Mazeppa. This reprographics group monitors the campus copying needs and has information on most photocopying equipment.

It is to the advantage of the University as a whole to deal with suppliers on an institutional basis rather than on a departmental basis. Administration of all contracts is handled by the reprographics group in conjunction with Purchasing. Data are gathered on a monthly basis for each item of copying equipment on campus, and a consultation service is offered on request to anyone interested in reviewing their own copying situation for further information contact Dan Mazeppa, telephone 432-4246.

# WALTER CAMPBELL MACKENZIE 1909-1978

Walter Campbell MacKenzie was Professor of Surgery and Chairman of that department, from 1959 until he became Dean of the Faculty of Medicine, a position which he held until his retirement in 1974. Dr. MacKenzie was a man of international reputation for his work as a surgeon, a scientist, a teacher, and a medical administrator. He published many papers in his special field of surgery and on the education of surgeons. He lead the way in ensuring high standards in all surgical training programs in Canada. His unusual gifts as a leader, organizer and diplomat, benefitted every organization to which he belonged.

He held the highest offices in Medicine, was President of the Royal College of Physicians and Surgeons of Canada, President of the Association of Canadian Medical Colleges and President of the American College of Surgeons-a unique honor for a Canadian. He was awarded honorary degrees by a number of Canadian universities, including his alma mater, Dalhousie, McGill University, and the University of Manitoba. He was awarded honorary fellowships by the Royal College of Surgeons of England, the Royal College of Surgeons of Edinburgh, the Royal College of Surgeons in Ireland, the Royal College of Physicians and Surgeons of Glasgow and the Association of Surgeons of Great Britain and Ireland, the only Canadian to ever be so widely recognized.

In Canada Dr. MacKenzie was awarded the F.N.G. Starr Award by the Canadian Medical Association—its highest honor for contributions to Canadian medicine. The Royal College of Physicians and Surgeons of Canada awarded him the Duncan Graham Award for his major contributions in establishing high standards in the graduate medical education programs in Canada.

On his retirement from the University of Alberta in 1974, Dr. MacKenzie assumed the position of Executive Director of the Provincial Cancer Hospitals Board, a position from which he retired only in August of this year. During his term as Executive Director, he developed the provincial cancer services into a truly coordinated provincial program and greatly increased the research activities in the Province related to that program.

Dr. MacKenzie's many achievements and the honors he received brought great credit and international recognition to the Faculty of Medicine at this University. An outstanding surgeon, researcher, author, educator, organizer, administrator, and leader, he will be remembered best by patients, students, colleagues, friends and their families for the



intense personal interest which he took in each one of them and for his deep concern for their personal problems.

On his retirement as Dean, his colleagues and friends established the "Walter C. MacKenzie Visiting Professorship" at this University, which was handsomely endowed. His influence will long be of benefit to this University and the medical profession in Canada.

before the Proceedings can be ready for distribution.

Papers which might have been accepted by journals and published within the year are out of date by the time they are finally submitted if the author waits for a decision to be made about publication in book form. Even if the Proceedings are finally published, other conferences held in the interim have often made the contents seem dated and unimportant.

A further complication has proven to be that it is not always realized how much it costs to print and bind a book in excess of two hundred pages. Adequate financing should be built into the conference budget from the beginning.

An early assessment of inherent problems can save many needless ones later and no one will be disappointed if it becomes apparent that publication of the Proceedings will be impracticable. On the other hand, if publication of the Proceedings is considered feasible, a style guide with firm specifications for illustrations can be sent to all invited speakers together with a deadline for presentation of copy sufficiently in advance to allow typesetting, printing, and binding to be accomplished in the three months or so leading up to the conference. As conferences are usually planned twelve to eighteen months ahead, a sensible timetable can be established.

The Press does not promise to publish all Proceedings submitted. The Editorial Board will decide each case on its merits. However, it will certainly give careful consideration to those submitted in advance and regrets it will in future have to decline even to examine Proceedings offered after the event.

# PRESS SUGGESTS GUIDELINES FOR PUBLICATION OF PROCEEDINGS

Organizers of symposia or conferences who envisage publication of the Proceedings by the University of Alberta Press should ask the Press to join their discussions at the earliest planning stage.

The very best market for a Proceedings is the one assembled for the conference itself, and the volume should be available for sale on the last day. Otherwise, experience shows, papers dribble in over the succeeding six months, each one conforming to a different style and making extensive copy editing necessary. Illustrations take even longer and are often unsuitable for reproduction purposes when they do arrive. Deliberations concerning whether or not to publish can take up to three months and printing proofreading, and and binding a further three or four months if a positive decision is reached, so that a year or eighteen months will have passed

# DISTINGUISHED LECTURE SERIES IN PHYSICS

Recent developments in physics have lead to a "new look" at the inner structure of the atomic nucleus. In a lecture designed for the general public, Sir Denys Wilkinson, noted English physicist, will discuss current views of the nucleus of the atom. Sir Denys will also give four specialized lectures on the subject of beta radioactivity.

An internationally known scientist, Sir Denys Wilkinson also serves as Vice Chancellor in the University of Sussex. His research into subjects in physics, notably nuclear structure and elementary particles, has gained him many honors and awards, including a knighthood in 1974. Wilkinson's most recent studies have been concerned with the determination of the structure of the atomic nucleus and with it radioactive decay.

Sir Denys' public lecture will be delivered in P-126, Physics Building, on 22 January at 3 p.m. The four specialized lectures will be given from Tuesday to Friday, 23 to 26 January, in V-128 Physics Building, at 3:30 p.m. each day.

# FILM ACQUISITIONS

The following is a listing of recent acquisitions. Each acquisition is listed by title, producer, date of release, format, duration, and location.

Visual Guide to . . . Female Genitalia B. Bates, University of Rochester, 1974 34 inch videocassette 5 minutes, 2-50 Medical Sciences Building Explains inspection of external genitalia, mons pubis, labia and perineum, cervix, vaginal pool and vaginal mucosa. Demonstrates bimanual palpation and palpation of rectum.

Visual Guide to . . . Pressures and Pulses B. Bates, University of Rochester, 1974, 34 inch videocassette, 5 minutes, 2-50 Medical Sciences Building Describes procedures for taking radial and carotid pulse, measuring blood pressure with sphygmomanometer, and examining venous jugular pulse.

Visual Guide to . . . Breast and Axillae Exam B. Bates, University of Rochester, 1974, 34 inch videocassette, 5 minutes, 2-50 Medical Sciences Building Illustrates inspection of breasts, skin and nipples, particularly if a mass is suspected. Describes examination of male and female axillae.

Normal Labour Indiana University, 1969, 34" videocassette, 15 minutes, 2-50 Medical Sciences Building Demonstrates development of uterine contractions during pregnancy and labor, cervical effacement and dilatation, cervical dilation curve, descent of fetus, delivery and third stage labor.

Menstrual Cycle

Maas/E. Lilly, No Date,

34" videocassette, 12 minutes,

2-50 Medical Sciences Building

An animated motion picture which describes the changes that occur in the ovaries, uterus, and other organs and tissues during the normal menstural cycle, how these changes are interrelated, and their significance in reproduction.

The RH Negative Mother E. Lilly, No Date, 34" videocassette, 5 minutes, 2-50 Medical Sciences Building Explanation of RH in lay terms by narration, diagrams and animation.

Amniocentesis for RH Disease
E. Lilly/University of Washington, 1967,
¾" videocassette, 5 minutes,
2-50 Medical Sciences Building
This film depicts the procedure for obtaining a sample of amniotic fluid and discusses interpretation of the analysis.

Prolongation of Labor due to Uterine Dysfunction

E. Lilly/Indiana University, 1970,

34" videocassette, 12 minutes,
2-50 Medical Sciences Building

Demonstrates by live action and animation abnormal and subnormal uterine contractions, how to anticipate onset, how to predict resulting length of labor and corrective measures than can be taken.

Pudendal & Paracervical Block
E. Lilly/University of Washington, No Date,
3/4" videocassette, 5 minutes,
2-50 Medical Sciences Building
The technique of performing the
paracervical and pudendal block is
demonstrated by animation and live
photography.

Proteins: Structure and Function

John Wiley & Sons, No Date,

16mm film, 14 minutes,

2-50 Medical Sciences Building

Animated film on the structure and fuction of protein.

Sickle Cell Anemia
University of Chicago, 1975,
16mm film, 5 minutes,
2-50 Medical Sciences Building
Animated film on Sickle Cell Anemia.

# Tulips

University of British Columbia, 1975, 3/4" videocassette, 8 minutes, 2-50 Medical Sciences Building A poem written by a dying patient is dramatized in sounds and images.

Perineal Spaces and Fascias Part 1
Department of Anatomy/ University of
Alberta, 1971, 3/4" videocassette, 10 minutes,
2-50 Medical Sciences Building
Anatomy of Perineal spaces.

Contents of Perineal Spaces Part 2
Department of Anatomy/University of
Alberta, 1971, 3/4" videocassette, 15 minutes,
2-50 Medical Sciences Building
Anatomy of Perineal spaces.

Helping the Volunteer Adjust to the Hospital Setting

Health Care, No Date,
audiocassette, 45 minutes,
2-50 Medical Sciences Building

Over 1/3 of all hospital volunteers
leave before completing one month of service. This program is designed to correct

that problem by exploring the reasons behind the situation and by providing possible solutions.

Family Disintegration: Divorce
Abbott Laboratories, 1973,
audiocassette, 60 minutes,
2-50 Medical Sciences Building
A clinical discussion of the crisis intervention
model as a treatment approach to patients and
families undergoing the life-change of divorce.

Death, Threat of Death, and Bereavement Abbott Laboratories, 1973, audiocassette, 60 minutes, 2-50 Medical Sciences Building
A discussion of crisis intervention in theory and practice as it applies to patients and family in terminal or life-threatening illness.

Unwanted Pregnancy: The Abortion Decision Abbott Laboratories, 1973, audiocassette, 60 minutes, 2-50 Medical Sciences Building A discussion of the crisis intervention model and its application to counselling women with problem pregnancies where abortion is one of the acceptable options.

The Surgical Decision

Abbott Laboratories, 1973,
audiocassette, 60 minutes,
2-50 Medical Sciences Building

A discussion of common emotional reactions of patients, family, and staff to hospitalization and surgery during pre- and post-operative periods—with ways in which psychiatric consultants can intervene to avoid or minimize crisis.

Menopause: The Prolonged Crisis
Abbott Laboratories, 1973,
audiocassette, 60 minutes,
2-50 Medical Sciences Building
A discussion of hormonal, psychological and cultural features of care-giving when crisis comes during the climacteric.

Job Separation: The Strange New World Abbott Laboratories, 1973, audiocassette, 60 minutes, 2-50 Medical Sciences Building A discussion of meanings of the "the Job" in our culture, with some ways the psychiatrist can minimize or prevent a crisis in individuals following retirement, furlough, lay-off, or dismissal.

# PEOPLE

■ D.R. Clandinin, Professor of Animal Science and President of the Canada Branch of the World's Poultry Science Association, participated in the XVI World's Poultry Congress which was held in Rio de Janeiro from 17 to 21 September. He also presented a paper in the Nutrition section of the Congress. More recently, he was one of two Canadian nutritionists who took part in seminars presented in Japan on the feeding value of Canadian low glucosinolate-type rapeseed meal for livestock and poultry. The seminars were given at meetings attended by oilseed processors and feed manufacturers. Their purpose was to acquaint the Japanese with recent Canadian research on the nutritive value of oil and meal derived from the new low glucosinolate, low erucic acid rapeseed which is being grown in Canada, in the hope that export of Canadian rapeseed to Japan will be increased. The seminars were sponsored by the Department of Industry, Trade, and Commerce.

- J. Rjinsdorp and F. Stainthorp were visitors to the Department of Chemical Engineering last term. Professor Rjinsdorp, Twente University of Technology, Holland, presented a seminor on "Ergonomic considerations in computer process control." Dr. Stainthrop, Department of Chemical Engineering of the University of Manchester Institute of Science and Technology, England, presented a seminar on "Interactive, computer-aided design of chemical processes and control systems."
- T.S. Leeson, Chairman of the Department of Anatomy, gave two lectures on 6 and 7 December at the University of Manitoba's Faculty of Medicine as a Visiting Professor. The lectures were entitled "The transverse tubular system of skeletal and cardiac muscle," and "Right atrium: a new morphological entity." He also met with staff in informal discussions over the two-day period.
- L.S. Caton has recently been appointed to the Chair of History of Commerce at the University of Tucumán, Argentina. Dr. Caton is well known for his work on the economic influence of the developments in fifteenth century shipbuilding techniques.

# NOTICES

Notices must reach the Editor by 9 a.m. the Thursday prior to publication. Written notification is necessary. Notices should be sent to Folio Notices, 423 Athabasca Hall.

# Thank You Santas

On behalf of the recipients of the 1978 Christmas Fund, The Office of Student Affairs would like to thank all contributors for their generous donations, and extend best wishes for the New Year.

# General Faculties Council Committee Vacancies

Committee on Native Studies
At its meeting on 20 December 1978, General

Faculties Council agreed to the expansion of the above committee. The Nominating Committee is now seeking nominations for nine members of the academic staff, one graduate student, one undergraduate student, and four members of the native community at large, to fill vacancies occasioned by this expansion. Those who have suggestions for nominations or who are interested in serving on the above committee are requested to contact the Secretary of the Nominating Committee, 2-1 University Hall, telephone 432-4715. It would be appreciated if a very brief vita could accompany any nomination.

#### Paving and Grounds Program 78/79

The last portion of the 78/79 program, i.e. Central Quad north, was commenced on 29 September 1978. Upon completion of demolition, the underground drainage systems, electric light bases, conduit, and wiring were installed. Some concrete walk was completed south of V-Wing. The project was shut down on 29 November 1978 for the winter, seventy percent of the contract having been completed. It is expected that light fixtures will be installed, as they arrive, in January 1979, weather permitting. The balance of the walks and grading will be completed as soon as possible in the spring of 1979.

# Ski Touring in the Mountains

The Edmonton Section of the Alpine Club of Canada will present a series of four lectures entitled "Ski Touring in the Mountains." These lectures are intended to acquaint the backpackers or mountaineers with the equipment needed and its use, along with sufficient knowledge to enable them to extend their summer activities to the winter. Topics include: the physiology of cold, selection of skis and bindings, clothing, shelter, packs, stoves, cooking, and glacier travel, along with such winter hazards as avalanches and frostbite. There will be a \$2 charge for the series to cover room costs. The lectures will take place at 7:30 p.m. on Tuesdays and Thursdays, 18, 23, 25, 29 January in VIII. Physics Building.

# Blood Donor Clinic

A Red Cross blood donor clinic will be held on 11 and 12 January in 142 Students' Union Building. All university faculty and staff are especially urged to donate. This clinic is sponsored by the Engineering Students' Society.

# **Conducting Census Training Semniars**

The Population Research Laboratory of the Department of Sociology is organizing a one-day training seminar on the topic "Conducting a Census." This seminar is designed to provide some helpful guidelines to those people who are actively involved in census taking, especially at the town and city levels. Those people at the supervisory level would increase their census administration efficiency through the adoption of standarized procedures.

There will be four major sessions: Preparation for the Census; Recruitment and Training of Enumerators; Preparation of Census Forms; and Enumeration and Quality Control.

The seminar is scheduled for Tuesday, 6 February, from 8:30 a.m. to 4:30 p.m. The total cost of the seminar, including lunch, is \$40 per person. For further information contact Ilze Hobin, telephone 432-4659.

#### Science Dining Club

The Science Dining Club will meet at 6 p.m. on Tuesday, 16 January, in the Saskatchewan Room of the Faculty Club. T. Ballin of the Department of Classics will speak on "The Interrelationship between Science and Technology in Ancient Greece." The talk will be followed by dinner at 7 p.m. Reservations should be made by 12 January with Mrs. P. Grant, Faculty of Science, telephone 432-4757.

# THIS WEEK AND NEXT

Listings must reach the Editor by 9 a.m. on the Thursday prior to publication. Written notification is necessary. Listings should be sent to Folio Listings, 423 Athabasca Hall.

# MUSIC

# Department of Music

14 January, Sunday 8 p.m. Fordyce Pier, trumpet, will present a recital. Convocation Hall.

15 January, Monday 8 p.m. The St. Cecilia Orchestra directed by Malcolm Forsyth, will present a concert. Convocation Hall.

19 January, Friday 8 p.m. Robert Stangeland, pianist, will present a recital featuring compositions of Scarlatti, Beethoven, Schumann, and Prokofiev. Convocation Hall. No admission charge.

# Provincial Museum

14 January, Sunday 2 p.m. A cultural heritage performance featuring Coro Italiano of Edmonton.

# Espace Tournesol

12, 13, 14 January 8:30 p.m. Victor-Paul, Vancouver born singer/songwriter, will perform. Admission is \$3.50 and reservations are strongly suggested. 11845 77 Street. For information, telephone 471-5235.

# Latitude 53

21 January, Sunday 2:30 p.m. "Otherwise," a feature ensemble of improvised music and dance. Tickets \$2.50 for members and \$3 for non-members. For information, telephone 423-3126.

#### **FILMS**

#### Student Cinema

12, 13, 14 January 7 and 9:30 p.m. Grease (United States, 1978).

17 January, Wednesday 7 and 9:30 p.m. Stroszek (Germany, 1977).

18, 19 January 7 and 9:30 p.m. Interiors (United States, 1978).

20, 21 January 7 and 9:30 p.m. Up in Smoke (United States, 1978).

Tickets available at the SU Box Office (HUB Mall), and at the door.

#### **Edmonton Film Society**

15 January, Monday 8 p.m. King Lear (USSR, 1971). Students' Union Theatre. Tickets available at the SU Box Office (HUB Mall), Woodwards stores, by mail, and at the door.

# Department of Germanic Languages 18 January, Thursday 7:30 p.m. Faust.

18 January, Thursday 7:30 p.m. Faus 17 Arts Building. Free admission.

# Provincial Museum

17 January, Wednesday 7 p.m. The Grapes of Wrath.

#### Centennial Library

13, 14 January 2 p.m. Two special screenings of the award winning films from the 1978 Alberta Film Awards. Free admission. For information, telephone 423-2331.

20 January, Saturday 2 p.m. Safety Last, with comedian Harold Lloyd. Centennial Library Theatre. Free admission.

# Cinematheque 16

12 January, Friday 7:30 p.m. Return From Africa (1973).

14 January, Sunday 2 p.m. Return from Africa (1973).

18, 19 January 7:30 p.m. Pat Garrett and Billy the Kid. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

# Audubon Wildlife Films

20 January, Saturday 8 p.m. "Adventures in Penn's Woods," with Tom Diez. Tickets at the door.

# Citadel/National Film Theatre

12 January, Friday 7:30 p.m. Greed (United States, 1923). 9:30 p.m. Jour de Fête (France, 1949).

14 January, Sunday 8 p.m. Greed (United States, 1923).

17, 18 January, Double Feature: 7:30 p.m. Conduct Unbecoming (Great Britain, 1975). 9:30 p.m. Cabaret (United States, 1972). 19 January, Friday 7:30 and 9:30 p.m. Harry and Tonto (United States, 1974).

# Espace Tournesol

19, 20 January 8 p.m. The Ondeko-za in Sado,

a film which documents the Ondeko-za's intense training. Admission is \$2.11845 77 Street. For information, telephone 471-5235.

#### **EXHIBITIONS**

#### University Art Gallery and Museum

To 12 January. The graphic work of Felix Valloton.

From 15 January. An exhibition of prints by Bob Chaplin and photographs by Ivan Osborne.

#### **Edmonton Art Gallery**

To 12 January. An exhibition and sale of portraits in oil by the late W.L. Stevenson. Continuing. "Picasso," an exhibition of paintings and prints by the artist.

"Art of the Dene," an exhibition of native Indian works produced by the Dene people of the Northwest Terrieories.

To 14 January. "The Other 19th Century," an exhibition consisting of 69 paintings and 17 sculptures in the "salon" style.

From 15 January. An exhibition of prints by James Tissot.

#### Provincial Museum

Continuing. "Images From Alberta's Southeast," an exhibition of painting and drawings of Alberta's southeast.

"Black Gold in Alberta," an exhibition of documents recording the history of black gold in Alberta.

"French Folk Art," an exhibition that interprets the origins, approaches and traditions of French Folk art.

From 13 January. "The Confederation Generation," an exhibit of photographs and text from the Royal Ontario Museum which provides a light-hearted look at life in Canada in the first decade after confederation.

# Students' Union Art Gallery

Continuing. An exhibition of recent paintings by Ann Clarke, Diane Whitehouse, and Suzanne Funnell.

# **Centennial Library**

Continuing. An exhibition of brass rubbings done by Lynn Bates. Foyer Gallery. Photographs by Gerry Boudrias. Photography Gallery.

# THEATRE

# Theatre :

To 14 January. Aleola, the 1978 Clifford E. Lee Award winning play by Gaeten Charlebois. For ticket information and show times, telephone 426-6870.

# Young Theatre 3

20 January, Saturday 1 and 3 p.m. "Step on a Crack," a 45 minute play suitable for youngsters from kindergarten to grade six. Tickets \$1.50 at the door. Provincial Museum of Alberta, 12845 102 Avenue.

#### Citadel Theatre

From 17 January. Cause Célèbre. Directed by Peter Coe and starring Barry Morse. Shoctor Theatre. For ticket information and show times contact the Citadel Box Office, telephone 425-1820.

#### **LECTURES AND SEMINARS**

Women's Auxiliary of the Edmonton Symphony Society 12 January, Friday 9:30 a.m. A concert preview to discuss the music that will be heard at the John Ogden concert at the Jubilee Auditorium on 12 and 13 January. Free admission.

#### **Department of Music Lecture**

14 January, Sunday 8 p.m. "Late 17th Century Emilian Solo Trumpet Music and its Performance," with speaker Fordyce C. Pier. Convocation Hall. Free admission.

#### The Women's Canadian Club

15 January, Monday 12:15 p.m. "New Canadian Success—Film Making?" with speaker Fil Fraser. Macdonald Hotel. Members must purchase tickets before 12 January at the Bay Ticket Office, downtown. Anyone interested in becoming a member may telephone, 469-7961.

# Faculty of Education Lectures

15 January, Monday 3:30 p.m. "Current Faculty Concerns in Canadian Universities," with speaker Jill Vickers of Carleton University. 7-140 Education North.

16 January, Tuesday 8 p.m. "Women in Canadian Universities," with speaker Jill Vickers of Carleton University. N2-115 Education Building, North Wing.

# **Human Sexuality Lecture**

16 January, Tuesday 7:30 p.m. "Taking Care of Ourselves," the first in a series of lectures on human sexuality. Free admission. For information telephone the Planned Parenthood Association of Edmonton at 423-3737.

Centre for Research in Teaching Seminar 16 January, Tuesday 4 p.m. "Research on Teacher Decision-Making," with speaker Richard Shavelson of the University of California at Los Angeles. 2-115 Education North Building.

# Physics Lecture

16 January, Tuesday 3:30 p.m. "Broken Symmetry in Quantum Mechanics," with speaker A.Z. Capri. V120 Physics Building.

Conadian Institute of Ukrainian Studies Seminar 16 January, Tuesday 12:30 p.m. "The Response of the Ukrainian Canadians to the Displaced Persons Situation in Europe," with speaker Michael Savaryn. 352C Athabasca Hall.

# Public Lecture

17 January, Wednesday 12:15 p.m. "Canada in a Comparative Perspective," with speaker Alexander J. Matejko. Alberta College, 10041 101 Street.

#### Chaplaincy Association Lecture

17 January, Wednesday 3 p.m. "Original Sin as a Political Concept," with speaker John Gallagher. 14-6 Tory Building.

#### **Classics Seminar**

18 February, Thursday 4 p.m. "Fabius Titanus, Opportunist," with speaker E.G. Wilson. 1-8 Humanities Centre.

#### Women and the Law Lecture

18 January, Thursday 7:30 p.m. Student Legal Services presents the second in a series of six lectures which deal with relevant issues pertaining to women and the law. Free admission.

Guild for Mediaeval and Renaissance Studies Lecture 19 January, Thursday 8:15 p.m. "The Relevance of Caves," with speaker Michael C. Brown. 3-19 Humanities Centre.

# POINTS OF INTEREST

#### **Campus Observatory**

12, 19 January. For information and tour reservations telephone 432-2325.

# POSITIONS VACANT

# Research Assistant (Biochemistry)

Qualifications: Ph.D. (Biochemistry), post-doctoral training, experience with the use of radioisotopes and publication record. Responsibility: to help with the development and application of hormone assays used in the clinical assessment of cancer. Salary: \$1,476-\$1,838 (trust). Please contact Personnel Services and Staff Relations for further information. To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201, Please do not contact the department directly. Positions available as of 5 January.

Duplicating Operator I (\$695-\$\$748)—Law Clerk Typist II (\$348-\$402, part-time)-Educational Research Services

Clerk Typist II (\$695-\$803, trust)-Institute of Law Research and Reform

Clerk Typist II (\$695-\$803)—Office of the Comptroller; Provincial Laboratory

Clerk Steno II (\$695-\$830)—Mechanical Engineering; Dean of Education

Dental Assistant (\$721-\$863)—Community Dentistry Timetable Scheduling Clerk (\$748-\$895)—Office of the Registrar

Clerk Typist III (\$748-\$895, term)—Office of the Registrar

Clerk Typist III (\$748-\$895, part-time, term)-English Clerk Typist III (\$447-\$537), part-time, term)-English Data Entry Operator I (\$772-\$929)-Bookstore Clerk Steno III (\$772-\$929)—Educational Psychology: Physics; Secretariat

Clerk Steno III (\$772-\$929, trust)-Community Medicine

Clerk Steno III (\$386-\$464, part-time)—Geology Senior Financial Records Clerk (\$772-\$929)-Drama Programmable Typewriter Operator II (\$803-\$969)-Personnel Services and Staff Relations

Admission Records Trainee (\$803-\$969)-Office of the Registrar

Data Entry Operator II (\$830-\$1,009)—Sociology Accounts Clerk (\$830-\$1,009)-Office of the Comptroller

Secretary (\$863-\$1,053)—Canadian Institute of Ukrainian Studies; Electrical Engineering Departmental Secretary (\$969-\$1,192)—Psychiatry Computer Assistant I (\$695-\$830)—Computing Services Laboratory Assistant II (Chemistry) \$721-\$863, term) -Microbiology

Storeman I (\$748-\$895)—Provincial Laboratory Technician I (\$\$895-\$1,096, trust)-Medicine-Clinical and Transplant Immunology Group

Electronics Technician I (\$929-\$1,143)-Chemistry Technician II (Chemical/Instrumentation) (\$1,009-\$1,243)-Animal Science Chemical Technician II (\$1,009-\$1,243)-Animal

Biochemistry Technologist I (\$1,009-\$1,243, trust)-

Pharmacology

Technologist I (\$1,009-\$1,243, trust)—Pharmacology Draftsman II/III (\$1,053-\$1,476)—Purchasing, Interior Design

Programmer/Analyst II (\$1,192-\$1,476)—Computing

Programmer/Analyst II/III (\$1,192-\$1,759)—Computing

Machinist Technician III (\$1,298-\$1,611)-Physics Technologist IV (Biochemistry) (\$1,476-\$1,838, trust) ---Medicine

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library, Room 512, should be consulted for further information as to availability and position requirements.

Library Clerk III (\$748-\$895)—Cataloguing; Acquisitions

Library Assistant I (\$803-\$969)—Biblio Verification; **Education: Selections** Secretary (\$863-\$1,053)—Cataloguing

# **ADVERTISEMENTS**

All advertisements must be received by 4:30 p.m. on the Thursday prior to publication. The cost is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Advertisements must be paid for in advance, and are accepted at the discretion of the Editor. We regret that no advertisements can be taken over the telephone. For order forms or further information, telephone 432-2325.

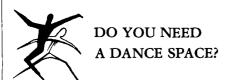
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For sale-By owner. Blue Quill, 1,756 sq. ft., Perry split, garage, landscaped. \$99,900. Phone 436-3617, 434-3696.

For sale-Make an offer, Large 63' x 14' trailer can be moved to acreage or left on serviced lot in city. Stove, fridge, fully carpeted. Resi Richter. Weber Bros. 455-4135, 483-9432.

For sale-Luxury hi-rise. River valley view. Brick fireplace in living room, two bedrooms, two bathrooms, underground parking. Resi Richter. Weber Bros. 455-4135, 483-9432.

For sale-Immediate possession. West end, five bedrooms, three bathrooms, family room, two fireplaces, sauna, sundeck, double garage. Resi Richter. Weber Bros. 455-4135. 483-9432.

For sale—Executive, open beam. Front split. Westbrook Drive. 3,000 sq. ft. home. Beautiful 100' x 190' lot overlooking Derrick Golf Course. Spacious rooms, planned for entertaining. Two fieldstone fireplaces with gas starters, huge kitchen, three bedrooms, double garage. For viewing call Fave Lund. Block Bros. 436-4240, 436-5355.

Sale by owner: Nice three bedroom condominium in Millwoods. Carport and other features. Centrally located. Reasonably priced. For full written information, write to Box 184, University Post Office, Edmonton.

For rent-Unfurnished bungalow in Duggan area. Three bedrooms, two bathrooms, all appliances included. Completely finished basement, double garage. Drapes included. 434-3872.

House to share in Garneau with one other. \$200 per month. Call 477-9628 days, 433-1089 evenings.

For rent-Southside, clean duplex, modern, open beam, back-split home, three bedrooms, two bathrooms, garage, fridge, stove. \$430 monthly. Call 433-9998 after 5 p.m.

For sale-Solid family home in North Windsor Park, Will consider all offers. Call Jim Sellars at Block Bros. NRES Ltd. Bus. 432-7541 or res. 424-6547.

West End, by owner, Grosvenor-Imperial 3 bedroom townhouse-former show home. Includes finished basement, 11/2 bathrooms, four appliances landscaping, sundeck, storage shed. Clear titlereal beauty at \$57,500. 487-5502, 452-0713.

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Will do top quality typing. Phone 455-6398. Aspen Languages-New classes commencing January. Intermediate and advanced French. Italian for beginners. French series-Le Tour De France: Conversation with slides. 435-4467.

Typing of theses, term papers, etc., in my home. Pick up and deliver. 454-5977.

Bechstein concert grand piano, 71/2 feet completely rebuilt and refinished. \$12,000 or best offer. Phone 434-1334.

Interested having your area snow cleaned? Call 439-3531.

Baby goods for sale-Like new, Call Elsie 432-5955 bus. 454-4573 res.

For sale: Teak table, 4 chairs, Princip oak bookcase, single bed, sofa, vacuum cleaner, ironing board. Like new, 3-5 months old, must sell, best offer. Phone 439-5243 after 5 p.m., January

Keep fit Yoga for beginners: Starts 17 January. Classes Wednesday evenings at University. Costsharing basis. Registration 6:30 p.m. January 10, and 5 p.m. 17 January, Room 9, 14th Floor, Tory Building. Limited enrollment.

Out of print book search; old and rare bought and sold. Tom Williams, Box 4126C, Calgary.

Experienced teacher required for Green Circle Pre-school, five mornings per week at McKernan School, Salary \$500 monthly, Pre-school experience essential. Start Jan.-Feb. Applications in writing to Mrs. S. Clarke, suite 119, 5314 Riverbend Road before 12 Jan. Mrs. Chatterton 435-0107.

Typing, proof-reading, editing literature, searches. IBM selectric. Adjacent campus. Carole 439-0427.

Need a home for affectionate black and white female cat, spayed, shots. 465-3876 after 6 p.m.

Berber carpet, handwoven, 100% wool, natural shade, 8'2" x 11'6", 8 months old, store price \$500, selling \$200. Cash only. Phone 479-8642.

1970 Kenmore dishwasher, leaks a bit, washes a lot. Best offer. Dave, 432-3812, 439-7808 evenings. Expert typing-theses, etc. 455-0641.



# Invitation to France

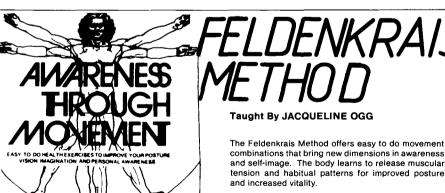
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